

45 BC

As Dictator, Caesar introduced (45 BC) the Egyptian solar yr of  $365\frac{1}{4}$  days which provided for an ordinary year of 365 days and 366 days every 4th yr.

45 BC

Spring began in March (Mar 25),  
so Sorigone thought. He  
probably made mistake of 1 day

45BC

Started with Jan. 1 as new  
year.

It also was leap year

1<sup>st</sup> Jan. 45 BC

The NEW MOON occurred at  
6:16 P.M. on 1<sup>st</sup> Jan. 45 BC.  
and Julius Caesar based his  
reformed Roman Cal. of a year of  
12 mos on the 1<sup>st</sup> Jan. as  
New Year's Day.

45 BC

The extra day added to  
years length for leap year  
was known as:

Ante diem sexto Kalendas  
Martius.

The extra day was therefore  
called BISSEXTO [second six]  
Kalendas Martius

45BC

The length of the tropical  
year was approximately

365.24232 days

or nearly 11 min 4 sec shorter  
than the Julian yr.

45 BC  
~~8 BC~~

Perhaps ~~Augustus~~ Caesar  
the days also

Mar 31

May 31

July 31

Jan + 2 = 31

Sep + 2 = 31

Nov + 2 = 31

Aug

Apr + 1 = 30

June + 1 = 30

Sept + 1 = 30

Dec + 1 = 30

Oct - 1 = 30

Feb + 1 = 29

or 30 in leap

Every Brit  
rearranged days  
in 10 months  
reversed

i.e.

Jan from 29 to 31

Feb from 28 to 29 (30 on leap)

Mar from 31 to 31

Apr from 29 to 30

May from 31 to 31

June from 29 to 30

Quintilis from 31 to 31

Sextilis from 29 to 30

Sept. from 29 to 31

Oct from 31 to 30

Nov from 29 to 31

Dec from 29 to 30

After Caesar's death

more Antony

got Quintilis

Changed to Julius



45BC

Was leap.  
One day intercalated after  
Feb. 24

45BC

## SEXTO CALENDAS MARTIUS

Six days to Calends of March

6	Calend March	Feb 24
5	Calend March	Feb 25
4	Calend Mar	Feb 26
3	Calend Mar	Feb 27

Eve Calend Mar

Feb 28

Calend Mar

Mar 1

45BC

Carver  
by some authorities

J - 31

F - 28

M - 31

A 30

M 31

J 30

J - 31

A - 31

S - 30

O 31

N - 30

D - 31

Some authorities say that Augustus  
Part D from Feb (24-28) to August (30-31)

and Sept (31  $\rightarrow$  30); Oct (30-31); Nov (31-30)  
& Dec 30  $\rightarrow$  31.

45BC

Julius Caesar probably  
had the months like  
us.

The story that Augustus  
changed August to 31 days  
was probably a fable.

August (Sextilis) already  
had 31 days.

45BC

Fault	Handy Facts	Years
Januarii	31	Sextilis 30
Februarii	29 or 30	
Martius	31	Septembris 31
Aprilis	30	Octobris 30
Maius	31	Novembris 31
Iunius	30	Decembris 30
Iulius	31	
		Total 365 1/4 days.

45BC was leap

45 BC

Sorigenes thought he had shifted  
back the spring Equinox to  
25 MARTIUS

The Vernal Equinox had shifted  
back about 3 days in 325 AD  
(Council of Nicea). They tried to  
fix it at March 21

By 16th Cen. it had fallen later &  
later - 11 more days to Mar. 11